

PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(R)	(R)	(R)	(R)	
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	
	(G)	(G)	(G)	(G)	(G)	(G)	
PHASE 2 + 6	G	G	G	G	R	R	←
2 + 6 CHANGE	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↔

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

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ASSISTANT DISTRICT ENGINEER - TRAFFIC
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CHIEF, TRAFFIC OPERATIONS DIVISION
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THE POWER COMPANY REPRESENTATIVE IS:
BALTIMORE GAS AND ELECTRIC COMPANY
MR. JOSEPH G. BUNCH
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NEW BUSINESS CONSTRUCTION
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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 197 AND B/W PARKWAY SOUTHBOUND RAMP A IN PRINCE GEORGE'S COUNTY. MD 197 IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

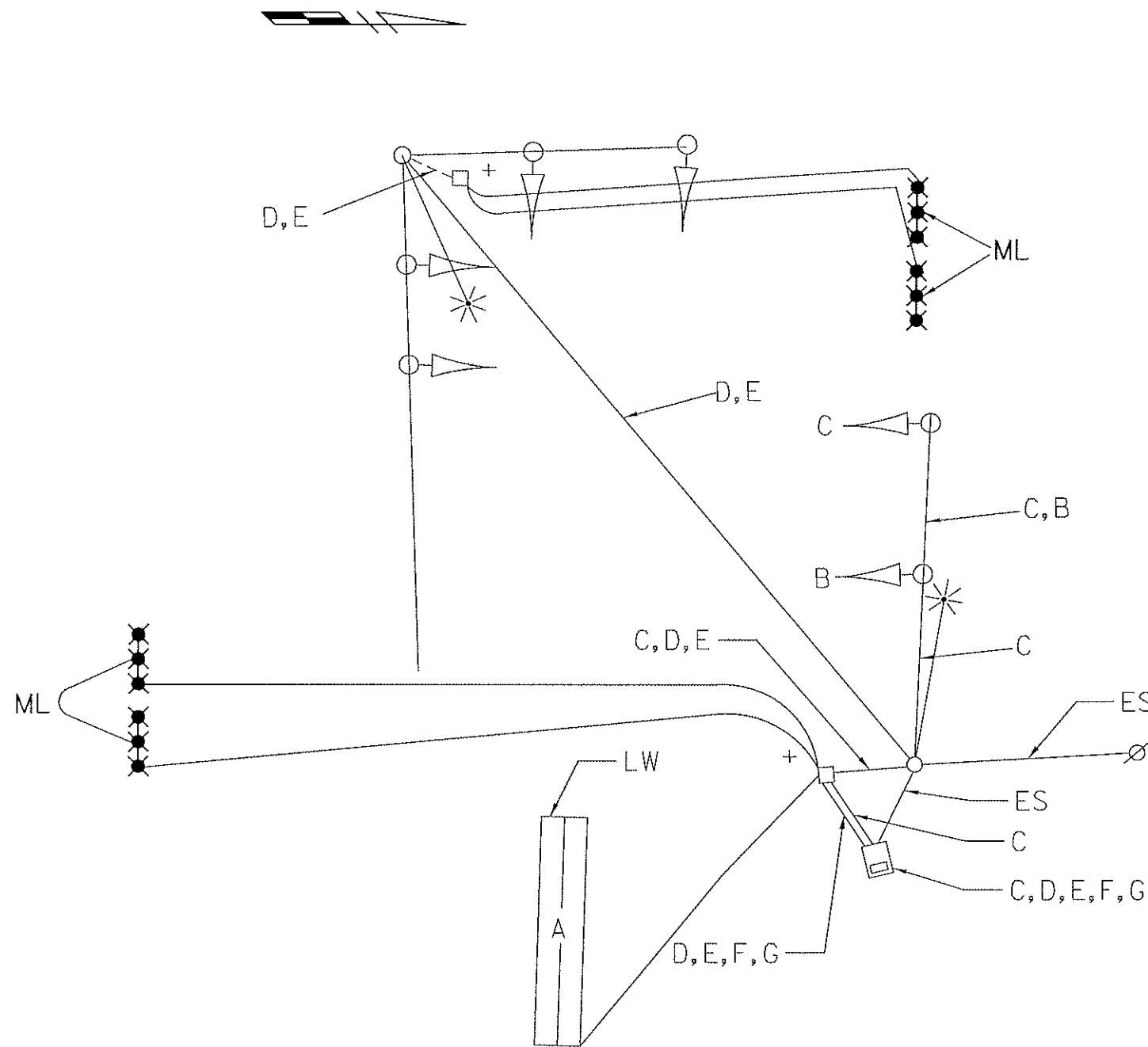
DURING TRAFFIC CONTROL STAGE 5 THE INTERSECTION WILL OPERATE IN A NEMA (3) THREE-PHASE FULL-TRAFFIC-ACTUATED MODE WITH SOUTHBOUND AND NORTHBOUND MARYLAND 197 APPROACHES OPERATING CONCURRENTLY. THE RAMP FROM B/W PARKWAY APPROACH WILL OPERATE ALONE.

MAINTENANCE OF TRAFFIC

THE TRAFFIC CONTROL NUMBERS SHALL BE REFERENCED FOR THE PROJECT

STANDARD NO. MD-105.00
STANDARD NO. MD-105.01
STANDARD NO. MD-105.02
STANDARD NO. MD-105.101 (FLAGGING OPERATION)
STANDARD NO. MD-105.103 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-105.105 (SHOULDER WORK)
STANDARD NO. MD-105.107 (LANE SHIFT)
STANDARD NO. MD-105.109 (LANE SHIFT)
NOTE: STANDARDS TO BE MODIFIED BY REPLACING W21-5 SIGN WITH A W29-1 SIGN (ROAD WORK AHEAD).

WIRING DIAGRAM



WIRING KEY

- A } 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED) SPLICE
B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D, E, F, G } MICRO-LOOP PROBE SET
LW - LOOP WIRE (NO. 14 A.W.G.)
ES - EXISTING SERVICE
+ - 3/4 IN. x 10 FT. GROUND ROD
ML - MICRO-LOOP PROBE SET

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
---	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
814	860265	2 EACH	RELOCATE EXISTING SIGNAL HEAD
814	800000	4 S.F.	RELOCATE EXISTING SIGN
810	861107	35 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
810	861108	80 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
805	805160	22 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
815	862102	1370 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
810	862101	510 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
---	114245	52 L.F.	FURNISH AND INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
810	800000	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN.
810	800000	1 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN.
810	860265	1 EACH	FURNISH AND INSTALL LOOP DETECTOR SPLICE TO EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLE.

CONSTRUCTION DETAILS

- A. REMOVE SIGNAL HEADS 3 AND 4, SIGN NO. 7 AND MAST ARM.
B. INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOPLINE)
D. REMOVE 24" WHITE REMOVABLE PAVEMENT MARKING TAPE (STOPLINE).
E. FURNISH AND INSTALL 6' X 30' LOOP DETECTOR, ENCASED IN 1/4" FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE TYPE.
F. FURNISH AND INSTALL 1" LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOE WIRE SLEEVE).
G. ABANDON LOOP DETECTOR.
H. REWIRE AND UNCOVER SIGNAL HEADS 3 AND 4 AND UNCOVER SIGN NO. 7.
I. ABANDON MICRO-LOOP PROBE SET.
J. FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN.
K. FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN.
L. DISCONNECT EXISTING LOOP DETECTOR & SPLICE NEW LOOP DETECTOR TO 2-CONDUCTOR CABLE.

ADDENDUM

STAGE 5
TEMPORARY TRAFFIC SIGNALS
SS-32

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
LOG MILE # 16019712.28

DRAWN BY: SMH
DES. BY: SMH/DLA
CHK. BY: BJH
MD 197 AT B/W PARKWAY/RAMP A
SIGNAL PLAN
COUNTY: PRINCE GEORGE'S

DATE: FEBRUARY, 1999
SCALE: N/A
F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. N/A
TS/STD. NO.: 1615E-X4-G11
SHEET NO. 128C OF 367

RK & K
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS

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TEL: (410) 728-2900 FAX: (410) 383-3270

REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER - TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

February, 1999
Reconstruct Due To New
Geometrics. SHA No: N/A